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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/646,253	08/22/2003	Nicolas Pondicq-Cassou	60246-214	9419	
26096 75	590 06/14/2005		EXAM	EXAMINER	
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD			JIANG, CHEN WEN		
SUITE 350	a DD ROND		ART UNIT	PAPER NUMBER	
BIRMINGHAN	M, MI 48009		3744	10-	
			DATE MAILED: 06/14/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/646,253		PONDICQ-CASSOU ET AL.				
Office Action Summary	Examiner	Art Unit					
	Chen-Wen Jiang	3744					
The MAILING DATE of this communication ap		Ti ii	Idress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, and the statutory minimum of will apply and will expire SIX (education).	nay a reply be timely filed of thirty (30) days will be considered timel i) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).					
Status		-					
1) Responsive to communication(s) filed on 24 I	March 2005.						
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·		;				
4) Claim(s) 1,2,4-13 and 18-20 is/are pending in the application.							
4a) Of the above claim(s) <u>9-11 and 13</u> is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>12</u> is/are allowed.							
6)⊠ Claim(s) <u>1,2,4-8 and 18-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requiremer	it.					
Application Papers		-					
9) The specification is objected to by the Examin	er.						
10)⊠ The drawing(s) filed on <u>18 May 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the E	xaminer. Note the atta	ached Office Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Tinter	view Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>20050118</u>.</li> </ol>	6) Othe		U-132)				
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#### **DETAILED ACTION**

## Response to Arguments

1. The amendments, arguments and affidavit presented by the applicant have been duly noted. In view of such, the previous rejections in the first office action have been withdrawn. However, an update search and further review of the prior art of record has prompted the presentation of new rejections presented below.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1,2,4-8,18,19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stensrud et al. (U.S. 2002/0095944) in view of Kuroki et al. (U.S. Patent Number 6,418,737).

In regard to claims 1,4,5,18 and 19, Stensrud et al. disclose a refrigeration system comprising a compressor 62, a heat rejecting heat exchanger 82, an expansion device 38, a heat accepting heat exchanger 22 and a refrigerant bypass 70 with a control valve 76. During defrost cycle, controller 30 close valve 74, open valve 76 and supply refrigerant via bypass 70 and supply line 54 to evaporator 22 thru valves 42 and 46. However, Stensrud et al. do not disclose a detecting sensor. Kuroki et al. disclose a detecting sensor in the same field of endeavor for the

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purpose of controlling defrost. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Franck et al. with a sensor in view of Kuroki et al. so as to control defrost operation. Under the principals of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. *Ir re King*, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986).

In regard to claim 6, Kuroki et al. disclose a pump 3 in the heat rejection circuit.

In regard to claim 2, Kuroki et al. disclose the refrigerant perform heat exchange with water.

In regard to claim 7, Kuroki et al. disclose the water pump 3 is stopped during defrosting operation.

In regard to claims 8 and 20, Kuroki et al. disclose the refrigerant is carbon dioxide.

#### Allowable Subject Matter

- 4. Claim 12 is allowed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Tuesday-Friday from 8:00 to 6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chen-Wen Jiang **Primary Examiner**